

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Rick Shewekah

GENERAL INFORMATION:

Name:	Alcan Composites USA, Inc.
Address	208 West 5th Street Benton, KY 42025
Date application received:	8/8/2005
SIC/Source description:	3081, 3083, 3086, Architectural Sheet and Plastic Sheet Manufacturing
Source ID:	21-157-00027
Agency Interest #:	2916
Activity ID:	APE20050001
Permit ID:	F-06-056

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
<input type="checkbox"/> Administrative	<input type="checkbox"/> Title V
<input type="checkbox"/> Minor	<input type="checkbox"/> Synthetic minor
<input type="checkbox"/> Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

#### EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)	Allowable (tpy)
PM/PM <sub>10</sub>	0.49	18.95	N/A
NO <sub>x</sub>		2.8	N/A
CO		0.6	N/A
SO <sub>2</sub>		0.2	N/A
VOC	3.67	52.3	< 90
Single HAPs >9 tpy	Isophorone	28.1	< 9
Source wide HAPs > 22.5 tpy	N/A	53.7	< 22.5

#### **SOURCE DESCRIPTION:**

Alcan Composites USA, Inc. (Alcan), previously Alusuisse Composites, Inc., is located in Benton, Kentucky, and operates an existing facility that manufactures two (2) product types identified as Sintra and Alucobond sheets. The Sintra sheet is a rigid, foamed PVC sheet produced by combining PVC in powder form with the needed additives. Sintra production is comprised of two (2) operations: the compounding operation and the Sintra Line. The compounding operation consists of dry materials storage (PVC silos and additives stored in sacks), measuring, mixing and transfer to the Sintra line. The Sintra line consists of four (4) Sintra extruders which feed extruded sheets to a series of rollers that control the temperature and thickness of the sheets, with trimming and cutting of finished sheets occurring when the sheets are cooled to a rigid state.

Alucobond is a building material formed by bonding painted aluminum sheets to each side of an extruded polyethylene core. Alcan has two (2) production lines comprising its Alucobond manufacturing system: the paint line and the Alucobond line. The paint line consists of aluminum coil unwind, two-sided paint roll coating of the unwound aluminum sheet, sheet feed through the drying oven with captured organic compound emissions ducted to the existing thermal oxidizer, quenching, and coil rewind for use at the Alucobond Line. The Alucobond Line consists of dry polyethylene fed to an extruder, with the extruded sheets combined with (i.e., placed between) two unwound aluminum sheets using heated rollers, and cutting of finished sheets.

This source has been operating pursuant to the requirements of current permit S-98-093, issued November 6, 1998. This permit was issued as a State Origin/Conditional Major permit pursuant to 401 KAR 50:035. This permitting rule has since been repealed and replaced with separating permitting provisions, including 401 KAR 52:020 (Title V Permits), 52:030 (Conditional Major Permits), and 52:040 (State Origin Permits). The permittee requested on February 6, 2003 that the existing operating permit be renewed pursuant to 401 KAR 52:030 as a Conditional Major Permit. In so doing, the permittee also requested that the voluntary hazardous air pollutant (HAP) emission limitations of Permit No. S-98-093 be increased to 90% of the major source threshold, as defined in 401 KAR 52:020 (Title V). This is consistent with other Conditional Major sources and such is incorporated herein.

**EMISSIONS AND OPERATING CAPS DESCRIPTIONS:**

To preclude the applicability of 401 KAR 52:020, *Title V permits*, the permittee has elected to accept source wide limits as follows: 9 TPY for a single HAP, 22.5 TPY for combined HAPs and 90 TPY for VOCs. Compliance with these limits shall also make the requirements of 40 CFR Part 63 for major sources of HAP emissions, as incorporated by reference at 401 KAR 63:002, not applicable to this source.

**OPERATIONAL FLEXIBILITY:**

The source is not restricted as to hours of operation or quantity of product produced while remaining within the caps above.